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S1	5	("5819292"|"5857207"|"6016553"|"6101585"|"6324654").PN.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/02/13 14:26
S2	2	09/876993	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/02/10 16:29
S3	438	incremental adj backup	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/02/10 16:29
S4	372	S3 and (@rlad<="20030708" @ad<="20030708")	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/02/13 15:16
S5	5	(("6934877") or ("6915315") or ("6848037") or ("6732244") or ("5381545")).PN.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2006/02/13 14:28
S6	1	("20030074378").PN.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2006/02/13 14:28
S7	5	(("20030074378") or ("20030081468") or ("20040143713") or ("20050114285") or ("20020178173")).PN.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2006/02/13 15:13
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S9	83	S8 and (@rlad<="20030708" @ad<="20030708")	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/02/13 15:16
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Protecting file systems: A survey of backup techniques - group of 4 »
AL Chervenak, V Vellanki, Z Kurmas - NASA, 1998 - pdb.eng.uiowa.edu
... Faster and smaller backups can be achieved using an **incremental backup** scheme, which copies only those files that have been created or modified since a ...
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Efficient Algorithms for Sorting and Synchronization - group of 18 »
A Tridgell - Doktorarbeit, Australian National University, 1999 - cri.ensmp.fr
... ber of related algorithms for text compression, differencing and **incremental backup**. iv Page 6. Contents Acknowledgments ... 90 5.3 **Incremental backup** systems . . ...
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[CITATION] The File Motel–An **Incremental Backup** System for Unix
A Hume - Summer USENIX Conference Proceedings, 1988
Cited by 5 - Web Search

Logical vs. Physical File System Backup - group of 5 »
NC Hutchinson, S Manley, M Federwisch, G Harris, D ... - OPERATING SYSTEMS REVIEW, 1998 - usenix.org
Page 1. The following paper was originally published in the Proceedings of the 3rd Symposium on Operating Systems Design and Implementation ...
Cited by 32 - Web Search - BL Direct

Venti: A New Approach to Archival Storage - group of 21 »
S Quinlan, S Dorward - FAST, 2002 - db.usenix.org
... The implementation, however, resembles an **incremental backup** because the snapshots and the active file system share any blocks that remain unmodified; a ...
Cited by 78 - Web Search

Evaluating Backup Algorithms - group of 4 »
Z Kurmas, AL Chervenak - IEEE Symposium on Mass Storage Systems, 2000 - cis.gvsu.edu
... once every period or epoch specified by an algorithm), this scheme copies only those files that have changed since the last **incremental backup** to the backup ...
Cited by 3 - View as HTML - Web Search - BL Direct

Designing a fast, on-line backup system for a log-structured file system - group of 10 »
RJ Green, AC Baird, JC Davies - Digital Technical Journal, 1996 - research.compaq.com
... The backup system achieves this level of performance without compromising functionality such as **incremental backup** or fast, selective restore. Introduction. ...
Cited by 10 - Cached - Web Search - BL Direct

How to Build a Trusted Database System on Untrusted Storage - group of 4 »
U Maheshwari, R Vingralek, W Shapiro - OSDI, 2000 - usenix.org
... An **incremental backup** of a partition is created with respect to a previous snapshot, the base, and contains the data chunks that were created, updated, or ...
Cited by 52 - Web Search

Efficient distributed backup with delta compression - group of 9 »
RC Burns, DDE Long - The 1997 5 th Workshop on I/O in Parallel and Distributed ..., 1997 - almaden.ibm.com

... Early efforts toreduce the amount of data to be backed up produced a simple optimization, **incremental backup**, which backs up only those files that have been ...
Cited by 23 - View as HTML - Web Search

Beyond backup toward storage management - group of 10 »
M Kaczmarski, T Jiang, DA Pease - IBM SYSTEMS JOURNAL, 2003 - research.ibm.com
... Minimizing network traffic: Progressive **incremental backup**. ... Figure 2 Figure 2. **Incremental backup** processing is shown in the first column. ...
Cited by 9 - Cached - Web Search - BL Direct

A Cached WORM File System - group of 16 »
S Quinlan - Software - Practice and Experience, 1991 - h7.dion.ne.jp
... The time to write all dump blocks to the WORM is expected to be similar to an **incremental backup** of a regular file system to a similar performance media. ...
Cited by 28 - View as HTML - Web Search

The Amanda network backup manager - group of 8 »
J Da Silva, Ó Gudmundsson - 1993 - portal.acm.org
... conf). Each filesystem will normally get a full backup once within this cycle, and an **incremental backup** every other night. The ...
Cited by 10 - Web Search - Library Search

pStore: A secure peer-to-peer backup system - group of 12 »
C Batten, K Barr, A Saraf, S Trepetin - Unpublished report, MIT Laboratory for Computer Science, ..., 2001 - dsl.upc.es
... In an effort to combine research in peer-to-peer systems with techniques for **incremental backup** systems, we propose pStore: a secure distributed backup system ...
Cited by 13 - View as HTML - Web Search

An Empirical Analysis of Web Page Revisitation - group of 6 »
B McKenzie, A Cockburn - PROCEEDINGS OF THE ANNUAL HAWAII INTERNATIONAL CONFERENCE ON ..., 2001 - usa.cosc.canterbury.ac.nz
... incremental backups. At our institu- tion any file that is modified during the day is copied into the **incremental backup**. Copies ...
Cited by 18 - View as HTML - Web Search - BL Direct

The HADES File Server - group of 2 »
H Reuter - Proc. Eleventh IEEE Symposium on Mass Storage Systems, ..., 1991 - ieeexplore.ieee.org
... backup file migrat B fileB C file C erased, incremental file D new backup file 2nd night: all new or modified files are copied into an **incremental backup** file. ...
Cited by 2 - Web Search

ADSM: A Multi-Platform, Scalable, Backup and Archive Mass Storage System - group of 6 »
LF Cabrera, R Rees, S Steiner, W Hineman - COMPCON-IEEE-DIGEST OF PAPERS AND PROCEEDINGS-, 1995 - doi.ieeecs.org
... on-line indices to store all appropriate metadata, ADS M preserves these performance characteristics regardless of the number of **incremental backup** operations. ...
Cited by 7 - Web Search - Library Search - BL Direct

Overview of the Spiralog file system - group of 10 »
JE Johnson, WA Laing - Digital Technical Journal, 1996 - research.compaq.com
... data. We achieved this degree of success without compromising such functionality as **incremental backup** or fast, selective restore. ...
Cited by 14 - Cached - Web Search - BL Direct

Defining a Quality Model for Mail Servers - group of 3 »
JP Carvallo, X Franch, C Quer - LECTURE NOTES IN COMPUTER SCIENCE, 2003 - Springer

... Protocols, that Single Copy Store contributes positively to Average Response Time but that this last attribute is damaged by Online **Incremental Backup** policies ...
Cited by 13 - Web Search - BL Direct

Write Optimized Object-Oriented Database Systems - group of 10 »
K Noervaag, K Bratbergsengen - SCCC, 1997 - doi.ieeecs.org
... The sequential writingofthe log, with timestamped segments, also makes on-line and **incremental backup** easy. To take a **incremental** ...
Cited by 3 - Web Search

Designing for disasters - group of 6 »
K Keeton, C Santos, D Beyer, J Chase, J Wilkes - Proc. FAST, 2004 - hpl.hp.com
... snapshot copy data to tape resync (resilver) backup copy create snapshot atomically full backup **incremental backup** Figure 3: the backup cycle. Page 6. ...
Cited by 9 - View as HTML - Web Search

"incremental backup" Search

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1 A log file design for analyzing secondary storage occupancy

H. Pat Artis

September 1981 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1981 ACM SIGMETRICS conference on Measurement and modeling of computer systems SIGMETRICS '81**, Volume 10 Issue 3

Publisher: ACM Press

Full text available: pdf(491.98 KB) Additional Information: full citation, abstract, references, index terms

A description of the design and implementation of a log file for analyzing the occupancy of secondary storage on IBM computer systems is discussed. Typical applications of the data contained in the log are also discussed.

2 Linux and the PalmPilot

Michael J. Hammel

June 1998 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(18.65 KB) Additional Information: full citation, abstract, references, index terms

This article contains all the information you need to run Linux on the Palm Pilot personal digital assistant

3 High speed on-line backup when using logical log operations

David B. Lomet

May 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data SIGMOD '00**, Volume 29 Issue 2

Publisher: ACM Press

Full text available: pdf(220.69 KB) Additional Information: full citation, abstract, references, citings, index terms

Media recovery protects a database from failures of the stable medium by maintaining an extra copy of the database, called the backup, and a media recovery log. When a failure occurs, the database is "restored" from the backup, and the media recovery log is used to roll forward the database to the desired time, usually the current time. Backup must be both fast and "on-line", i.e. concurrent with on-going update activity. Conventional online backup sequentially copies ...

4 Adaptive programming in JAsCo

Wim Vanderperren, Davy Suvée, Bart Verheecke, María Agustina Cibrán, Viviane Jonckers

March 2005 **Proceedings of the 4th international conference on Aspect-oriented software development AOSD '05**

Publisher: ACM Press

Full text available: pdf(355.00 KB) Additional Information: full citation, abstract, references

In this paper we propose an extension to JAsCo for supporting Adaptive Programming in a Component-Based Software Development context. JAsCo is an aspect-oriented programming language targeted at Component-Based Software Development and allows encapsulating crosscutting concerns using highly reusable aspect beans. Adaptive Programming on the other hand, allows capturing crosscutting concerns by structure-shy adaptive visitors. We propose to implement an adaptive visitor as a regular JAsCo aspect ...

Keywords: JAsCo, adaptive programming, aspect-oriented software development, component-based software development

5 Tar and Taper for Linux: Learn to use tar and the friendly taper archival tools.

Yusuf Nagree

February 1996 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(33.29 KB) Additional Information: full citation, index terms

6 Strong loss tolerance of electronic coin systems

Birgit Pfitzmann, Michael Waidner

May 1997 **ACM Transactions on Computer Systems (TOCS)**, Volume 15 Issue 2

Publisher: ACM Press

Full text available: pdf(267.29 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Untraceable electronic cash means prepaid digital payment systems, usually with offline payments, that protect user privacy. Such systems have recently been given considerable attention by both theory and development projects. However, in most current schemes, loss of a user device containing electronic cash implies a loss of money, just as with real cash. In comparison with credit schemes, this is considered a serious shortcoming. This article shows how untraceable electronic cash can be m ...

Keywords: Byzantine faults, electronic cash, payment systems, privacy

7 Mobile services: Reincarnating PCs with portable SoulPads

Ramón Cáceres, Casey Carter, Chandra Narayanaswami, Mandayam Raghunath

June 2005 **Proceedings of the 3rd international conference on Mobile systems, applications, and services MobiSys '05**

Publisher: ACM Press

Full text available: pdf(199.97 KB) Additional Information: full citation, abstract, references

The ability to walk up to any computer, personalize it, and use it as one's own has long been a goal of mobile computing research. We present *SoulPad*, a new approach based on carrying an auto-configuring operating system along with a suspended virtual machine on a small portable device. With this approach, the computer boots from the device and resumes the virtual machine, thus giving the user access to his personal environment, including previously running computations. *SoulPad* ha ...

8 Documentation tools: Documentation meets version control: an automated backup

system for HTML-based help
Robin Green
September 2000 **Proceedings of IEEE professional communication society international professional communication conference and Proceedings of the 18th annual ACM international conference on Computer documentation: technology & teamwork**
Publisher: IEEE Educational Activities Department
Full text available: pdf(449.11 KB) Additional Information: full citation, abstract

Software developers have used version control systems for years, to manage source code changes and to enable them to reproduce any given level of their software from the source code that created it. Most writing departments, however, tend to perform full-scale weekly backups at best, or tempt fate at worst. The two major reasons for this neglect of document version control are lack of adequate tools and the effort required by writers to deal with the inadequate tools presently available. This pa ...

9 Efficient distributed backup with delta compression
Randal C. Burns, Darrell D. E. Long
November 1997 **Proceedings of the fifth workshop on I/O in parallel and distributed systems**
Publisher: ACM Press
Full text available: pdf(1.37 MB) Additional Information: full citation, references, citings, index terms

10 Creating a culture of technical caution: addressing the issues of security, privacy protection and the ethical use of technology
Judith Oates Lewandowski
November 2005 **Proceedings of the 33rd annual ACM SIGUCCS conference on User services SIGUCCS '05**
Publisher: ACM Press
Full text available: pdf(59.00 KB) Additional Information: full citation, abstract, references, index terms

This paper focuses upon the infusion of basic security and cyberethics principles within the curriculum of a required technology integration course for pre-service teachers. By using a prescribed list of content and the relevant curricular modules, the students are exposed to these principles within a similar context they will encounter as a K-12 educator.

11 Progress report: Brown university instructional computing laboratory
Marc H. Brown, Robert Sedgewick
January 1984 **ACM SIGCSE Bulletin , Proceedings of the fifteenth SIGCSE technical symposium on Computer science education SIGSCE '84**, Volume 16 Issue 1
Publisher: ACM Press
Full text available: pdf(1.15 MB) Additional Information: full citation, abstract, references, citings, index terms

An instructional computing laboratory, consisting of about 60 high-performance, graphics-based personal workstations connected by a high-bandwidth, resource-sharing local area network, has recently become operational at Brown University. This hardware, coupled with an innovative courseware/software environment, is being used in the classroom in an attempt to radically improve the state of the art of computer science pedagogy. This paper describes the current state of the project. T ...

12 A minicomputer network management monitoring and analysis system using APL
Fred A. Gross, James C. Taylor
January 1987 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL: APL in transition APL '87**, Volume 17 Issue 4

Publisher: ACM Press
Full text available: pdf(494.57 KB) Additional Information: full citation, abstract, references, index terms

This article describes an integrated group of utilities distributed about an eleven super-minicomputer network for such purposes as mediating network-wide file backup without user intervention, centralized verification of all archival processes, centralized monitoring and analysis of network and individual node statistics, general system housekeeping, and notification of systems staff of trouble spots (particularly security and system use growth behavior). This facility uses APL (the Data G ...

13 Kernel korner: ATA over ethernet: putting hard drives on the lan
Ed L. Cashin
June 2005 **Linux Journal**, Volume 2005 Issue 134
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(23.76 KB) Additional Information: full citation, abstract, index terms

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14 The SNet model: access, security and e-services for students
Anand Padmanabhan
September 2003 **Proceedings of the 31st annual ACM SIGUCCS conference on User services**
Publisher: ACM Press
Full text available: pdf(313.83 KB) Additional Information: full citation, abstract, references, index terms

This paper will explore the SNet model that Hunter College of the City University of New York developed and implemented. During the Spring of 2002, CUNY as a central organization (3rd largest in the country) envisioned a plan and strategy to enhance e-services to all their students, faculty and administrators. From this 'master' vision, Hunter College designed and derived the SNet model to provide efficient and effective services to students. This model not only looks at just providing eServices ...

Keywords: SNet, communication, eServices, email, higher education, information technology, model, wireless

15 An analysis of XML database solutions for the management of MPEG-7 media descriptions
Utz Westermann, Wolfgang Klas
December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4
Publisher: ACM Press
Full text available: pdf(448.76 KB) Additional Information: full citation, abstract, references, index terms, review

MPEG-7 constitutes a promising standard for the description of multimedia content. It can be expected that a lot of applications based on MPEG-7 media descriptions will be set up in the near future. Therefore, means for the adequate management of large amounts of MPEG-7-compliant media descriptions are certainly desirable. Essentially, MPEG-7 media descriptions are XML documents following media description schemes defined with a variant of XML Schema. Thus, it is reasonable to investigate curren ...

Keywords: MPEG-7, XML database systems, multimedia databases

16 Disaster recovery planning for academic computing centers
Renate Rohde, Jim Haskett
June 1990 **Communications of the ACM**, Volume 33 Issue 6

Publisher: ACM Press

Full text available: pdf(691.04 KB) Additional Information: full citation, abstract, references, index terms, review

Planning for recovery from a disaster is quickly becoming recognized as a necessity for higher education computing installations. This article presents a structural framework, describes the stages, and tells how to implement a disaster recovery plan specifically geared to an academic computing organization.

Keywords: backup files, recovery, system management

17 Teaching of assembly language as a laboratory science

D. J. Weiner

December 1989 **ACM SIGCSE Bulletin**, Volume 21 Issue 4

Publisher: ACM Press

Full text available: pdf(501.75 KB) Additional Information: full citation, abstract, citings, index terms

This paper describes our experience with the implementation of laboratories associated with our undergraduate computer science courses. The beginning assembly language course was chosen as our first experiment with this concept for several reasons. Acquisition of new equipment necessitated reorganization of the course in any case, and the philosophy of learning by experimentation was most easily implemented in a subject "close to the hardware".The concept of a supervised lab in computer science, ...

18 Coordination with scopes

Iain Merrick, Alan Wood

March 2000 **Proceedings of the 2000 ACM symposium on Applied computing - Volume 1**

Publisher: ACM Press

Full text available: pdf(687.10 KB) Additional Information: full citation, references, citings, index terms

Keywords: Linda, coordination, tuplespaces

19 Backup Strategy

Malcolm Murphy

February 1996 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(14.98 KB) Additional Information: full citation, abstract, index terms

Malcolm tells us which files to backup and how often

20 Linux Means Business

Lester Hightower, Hank Leininger

February 1998 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(17.15 KB) Additional Information: full citation, abstract, index terms

United Railway Signal Group, Inc.: The story of how Progressive Computer Concepts has turned United Railway into a Linux shop